



RL-4018

LOW PROFILE SMD POWER INDUCTOR

DESCRIPTION

- SMD Power Inductor

ENVIRONMENTAL DATA

- Storage temperature range: -55°C to +130°C
- Operating temperature range: -40°C to +130°C

PACKAGING INFORMATION

- Packaging information: pg. 504

FEATURES & APPLICATIONS

- Low profile, great for applications when space is at a minimum
- Excellent as a power inductor used in notebook computers and other electronic equipment requiring compact and low-loss inductors
- Available in 6 values with inductance ratings from 1.0 μ H to 100 μ H and currents up to 4.70 A

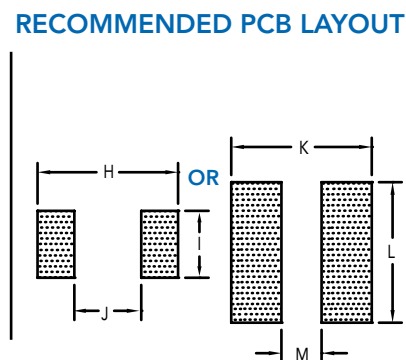
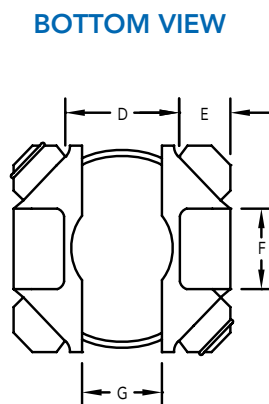
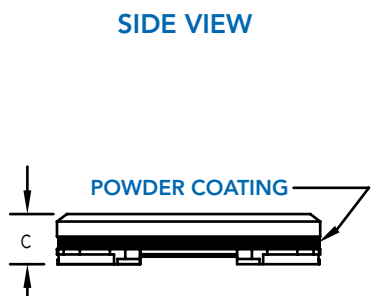
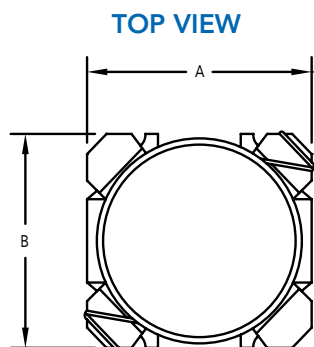
Verify operation with sample in actual circuit. Order samples at www.rencousa.com.

MECHANICAL DIMENSIONS

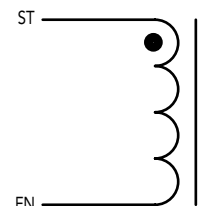
U.S. Standard (mm)

PART NUMBER	A (MAX.)	B (MAX.)	C (MAX.)	D (TYP.)	E (TYP.)	F (TYP.)	G (TYP.)
RL-4018	0.165 (4.20)	0.161 (4.10)	0.070 (1.80)	0.080 (2.10)	0.035 (0.90)	0.062 (1.60)	0.043 (1.10)

PART NUMBER	PART WEIGHT	H (REF.)	I (REF.)	J (REF.)	K (REF.)	L (REF.)	M (REF.)
RL-4018	0.9g (0.03oz)	0.173 (4.40)	0.078 (2.00)	0.078 (2.00)	0.165 (4.20)	0.169 (4.30)	0.039 (1.00)



SCHEMATIC



RECO ELECTRONICS INC.

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Renco Part No. RL-4018	Inductance (μ H)	DCR Max. (Ohms)	Isat (A)	Irms (A)
RL-4018-1R0N	1.0 $\pm$ 30%	0.050	4.70	1.85
RL-4018-1R5N	1.5 $\pm$ 30%	0.060	3.70	1.70
RL-4018-1R8N	1.8 $\pm$ 30%	0.065	3.40	1.65
RL-4018-2R2MN	2.2 $\pm$ 20% & 30%	0.074	3.20	1.60
RL-4018-3R3MN	3.3 $\pm$ 20% & 30%	0.097	2.70	1.45
RL-4018-4R7M	4.7 $\pm$ 20%	0.120	2.20	1.30
RL-4018-6R8M	6.8 $\pm$ 20%	0.170	1.80	1.15
RL-4018-100M	10.0 $\pm$ 20%	0.240	1.50	1.00
RL-4018-220M	22.0 $\pm$ 20%	0.490	1.00	0.63
RL-4018-470M	47.0 $\pm$ 20%	1.170	0.75	0.49
RL-4018-101M	100.0 $\pm$ 20%	2.170	0.45	0.28

NOTES:

1. Isat - DC CURRENT THAT WILL CAUSE INDUCTANCE TO DROP BY 30%
2. Irms - CURRENT THAT CAUSES THE TEMPERATURE TO RISE APPROX. 40°C ABOVE AMBIENT OF 25°C
3. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C
4. RESISTANCE TO SOLDER HEAT: 260°C FOR 10 SECONDS
5. INDUCTANCE TESTED AT 100 kHz, 0.1 Vrms



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